INTERNATIONAL SEARCH REPORT

International application No.

CLASSIFICATION OF SUBJECT MATTER TPC: H04B 7/00 USPC: 455/515,516,517,518,519,520,521 According to International Patent Classification ((PC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S.: 455/515,516,517,518,519,520,521 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category * Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X US 6,032,051 A (HALL et al.) 29 February 2000 (29,02.2000), Figures 4, 17, Cols. 2 lines 1-9, 3 lines 4-15, 3 lines 29-43, 4 lines 8-21, 5 lines 65-67, 6 lines 1-2, 6 lines 54-60 Further documents are listed in the continuation of Box C. See patent family annex. * Special categories of cited documents: * Total comment defining the general state of the art which is not considered to be of particular relevance.
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of particular relevance
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"E" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive
date step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to "Y" document of particular relevance; the claimed invention cannot be
establish the publication date of another citation or other special reason (as considered to involve an inventive step when the document is
being obvious to a person skilled in the art
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"O" document referring to an oral disclosure, use, exhibition or other means
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"P" document published prior to the international filing date but later than the priority date claimed. Date of the actual completion of the international search 05 January 2007 (05.01.2007) Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents "&" document member of the same patent family Pate of mailing of the international search report 2 2 F B 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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PATENT COOPERATION TREATY

INTERNAT	TIONAL SEARC	HING AUTH	ORITY		
То:					PCT
PHILIP R. WADSWORTH QUALCOMM INCORPORATED					101
	REHOUSE DRIV			W	RITTEN OPINION OF THE
SAN DIEGO, CA 92121-1714					TIONAL SEARCHING AUTHORITY
					(PCT Rule 43bis.1)
				Date of mailing (day/month/year	22 FEB 2007
Applicant'	's or agent's file	e reference		FOR FURTHE	R ACTION See paragraph 2 below
030640W	O nal application No		International filing date	(day/month/year)	Priority date (day/month/year)
		J.			
PCT/US04 Internation		ication (IPC)	or both national classification		12 January 2004 (12.01.2004)
	H04B 7/00	, ,			
USPC: Applicant	455/515,516,517,	,518,519,520	,521		
1 **		ATED			
QUALCO	MM INCORPOR	CATED			
1. This o	opinion contains i	ndications rel	lating to the following iter	ns:	
	Box No. I	Basis of the	e opinion		
	Вох №. П	Priority			
	Box No. III	Non-establi	ishment of opinion with re	egard to novelty, in	ventive step and industrial applicability
	Box No. IV	Lack of uni	ity of invention		
	Box No. V		tatement under Rule 43bis		d to novelty, inventive step or industrial statement
	Box No. VI	Certain doc	cuments cited		
	Box No. VII	Certain def	ects in the international ap	plication	
	Box No. VIII	Certain obs	servations on the internation	onal application	
2. FUR	THER ACTIO	N			
If a d Intern Autho	lemand for international Prelimina prity other than the	ational prelimary Examining	ng Authority ("IPEA") e	xcept that this doe IPEA has notified	Il be considered to be a written opinion of the es not apply where the applicant chooses an the International Bureau under Rule 66.1 <i>bis(b)</i> sidered.
IPEA mailir	a written reply ng of Form PCT/	together, wh ISA/220 or be	nere appropriate, with an efore the expiration of 22	endments, before	IPEA, the applicant is invited to submit to the the expiration of 3 months from the date of riority date, whichever expires later.
For fi	urther options, see	e Form PCT/	13A/22U.		
3. For fi	arther details, see	notes to For	m PCT/ISA/220.		1 .) .
	l mailing address			etion of this	Authorized officer
	Mail Stop PCT, Attı Commissioner for P		opinion		Raymond S. Dean
I	P.O. Box 1450 Alexandria, Virginia		05 January 200	07 (05.01.2007)	
	No. (571) 273-32				Telephone No. 571-272-7877
Form PCT/	ISA/237 (cover sl	heet) (April 2	.005)		

International application No.

Box No. I Basis of this opinion	
1. With regard to the language, this opinion has been established on the basis of:	
the international application in the language in which it was filed	
a translation of the international application into, which is the language of a translational search (Rules 12.3(a) and 23.1(b)).	slation furnished for the purposes of
2. With regard to any nucleotide and/or amino acid sequence disclosed in the internation claimed invention, this opinion has been established on the basis of:	al application and necessary to the
a. type of material	
a sequence listing	
table(s) related to the sequence listing	
b. format of material	
on paper	
in electronic form	
c. time of filing/furnishing	
contained in the international application as filed.	
filed together with the international application in electronic form.	
furnished subsequently to this Authority for the purposes of search.	
3. In addition, in the case that more than one version or copy of a sequence listing and filed or furnished, the required statements that the information in the subsequent or at the application as filed or does not go beyond the application as filed, as appropriate,	ditional copies is identical to that in
4. Additional comments:	
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International application No. PCT/US04/40920

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1. Statement					
Novelty (N)	Claims	NONE	YES		
		1-44			
Inventive step (IS)	Claims	NONE	YES		
		1-44			
Industrial applicability (IA)	Claims	1-44	YES		
and approved the state of the s		NONE			
2. Citations and explanations:					
Please See Continuation Sheet					
			•		
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rm PCT/ISA/237 (Box No. V) (April 2005)					

International application No.

INTERNATIONAL SEARCHING AUTHORITI	PC1/USU4/40920
Box No. VII Certain defects in the international application	
The following defects in the form or contents of the international application	tion have been noted:
 Claim 1 is objected to under PCT Rule 66.2(a)(iii) as containing the fol The word "sending" in Claim 1 is misspelled 	
The word sending in Claim I is misspened	
I	

International application No.

PCT/US04/40920

Box No.	VIII	Certain	observations	on the	international	application
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The following observations on the clarity of the claims, description, and drawings or on the questions whether the claims are fully supported by the description, are made:

1. Claims 20, 39 are objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because claims 20, 39 are indefinite for the following reason(s):

Claim 20 should depend on Claim 19 as opposed to Claim 1 for proper antecedent basis. Claim 39 should depend on Claim 35 as opposed to Claim 25 for proper antecedent basis. Appropriate correction is required.

International application No. PCT/US04/40920

Supplemental Box					
In case the space in	any of the	preceding	hoves is	not	sufficient

V. 2. Citations and Explanations:

- 1. Claim 1 is objected to under PCT Rule 66.2(a)(iii) as containing the following defect(s) in the form or contents thereof:
 The word "sending" in Claim 1 is misspelled
- 2. Claims 20, 39 are objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because claims 20, 39 are indefinite for the following reason(s):

Claim 20 should depend on Claim 19 as opposed to Claim 1 for proper antecedent basis. Claim 39 should depend on Claim 35 as opposed to Claim 25 for proper antecedent basis. Appropriate correction is required.

3. Claims 1-44 lack novelty under PCT Article 33(2) as being anticipated by Hall et al. (6,032,051).

Regarding Claim 1, Hall teaches a method for sharing user information in a wireless communication network, the method comprising: sending an alert from an originator to a target, the alert including information about the originator and requesting information about the target (Figure 4, Col. 3 lines 29 - 43); receiving information by the originator from the target in response to the alert (Figure 4, Col. 3 lines 29 - 43), and updating information in the originator about the target, based on the received information (Cols. 2 lines 1 - 9, 3 lines 29 - 43, in order for the originator (A) to be able to monitor the status of a member or members of a group said originator (A) will update the status information of said member or members upon receiving the PONG message).

Regarding Claim 7, Hall teaches a computer-readable medium embodying codes for implementing a method for sharing user information in a wireless communication network (Cols. 3 lines 4 - 15, 5 lines 65 - 67, 6 lines 1 - 2), the method comprising: sending an alert from an originator to a target, the alert including information about the originator and requesting information about the target (Figure 4, Col. 3 lines 29 - 43); receiving information by the originator from the target in response to the alert (Figure 4, Col. 3 lines 29 - 43), and updating information in the originator about the target, based on the received information (Cols. 2 lines 1 - 9, 3 lines 29 - 43, in order for the originator (A) to be able to monitor the status of a member or members of a group said originator (A) will update the status information of said member or members upon receiving the PONG message).

Regarding Claim 13, Hall teaches an apparatus for sharing user information in a wireless communication network, comprising: means for sending an alert from an originator to a target, the alert including information about the originator and

International application No.

	INTERNATIONAL SEARCHING AUTHORITY	PC17US04/40920
Box No.	VII Certain defects in the international application	
The follo	owing defects in the form or contents of the international applicat	ion have been noted:
1	Claim 1 is objected to under PCT Rule 66.2(a)(iii) as containing the foll The word "sending" in Claim 1 is misspelled	lowing defect(s) in the form or contents thereof:
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International application No.

PCT/US04/40920

Box No. VIII Certain observati	as on the international	application
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The following observations on the clarity of the claims, description	, and drawings or on the questions whether the claims are fully
supported by the description, are made:	

Claims 20, 39 are objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because claims 20, 39 are

indefinite for the following reason(s):

Claim 20 should depend on Claim 19 as opposed to Claim 1 for proper antecedent basis. Claim 39 should depend on Claim 35 as opposed to Claim 25 for proper antecedent basis. Appropriate correction is required.

Form PCT/ISA/237 (Box No. VIII) (April 2005)

International application No. PCT/US04/40920

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

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requesting information about the target (Figure 4, Col. 3 lines 29 - 43); means for receiving information by the originator from the target in response to the alert (Figure 4, Col. 3 lines 29 - 43), and means for updating information in the originator about the target, based on the received information (Cols. 2 lines 1 - 9, 3 lines 29 - 43, in order for the originator (A) to be able to monitor the status of a member or members of a group said originator (A) will update the status information of said member

or members upon receiving the PONG message).

Regarding Claim 19, Hall teaches an apparatus for sharing user information in a wireless communication network, comprising: a memory unit (Figure 3, Col. 3 lines 9 - 11); a receiver; a transmitter (Figure 3, Col. 3 lines 11 - 15, in order to communicate bi-directionally the wireless communication device (31) must have a transmitter and receiver); and a processor coupled to the memory unit, the receiver, and the transmitter (Cols. 5 lines 65 - 67, 6 lines 1 - 2), the processor being capable of: sending an alert from an originator to a target, the alert including information about the originator and requesting information about the target (Figure 4, Col. 3 lines 29 - 43); receiving information by the originator from the target in response to the alert (Figure 4, Col. 3 lines 29 - 43), and updating information in the originator about the target, based on the received information (Cols. 2 lines 1 - 9, 3 lines 29 - 43, in order for the originator (A) to be able to monitor the status of a member or members of a group said originator (A) will update the status information of said member or members upon receiving the PONG message).

Regarding Claim 25, Hall teaches a method for sharing user information in a wireless communication network, the method comprising: sending at least one alert from an originator requesting information about at least one target user (Figure 4, Col. 3 lines 29 - 43); receiving information by the originator in response to the alert (Figure 4, Col. 3 lines 29 - 43), and updating information in the originator about the target the target user, based on information received (Cols. 2 lines 1 - 9, 3 lines 29 - 43, in order for the originator (A) to be able to monitor the status of a member or members of a group said originator (A) will update the status information of said member or members upon receiving the PONG message).

Regarding Claim 30, Hall teaches a computer-readable medium embodying codes for implementing a method for sharing user information in a wireless communication network (Cols. 3 lines 4 - 15, 5 lines 65 - 67, 6 lines 1 - 2), the method comprising: sending at least one alert from an originator requesting information about at least one target user (Figure 4, Col. 3 lines 29 - 43); receiving information by the originator in response to the alert (Figure 4, Col. 3 lines 29 - 43), and updating information in the originator about the target user, based on the information received (Cols. 2 lines 1 - 9, 3 lines 29 - 43, in order for the originator (A) to be able to monitor the status of a member or members of a group said originator (A) will update the status information of said member or members upon receiving the PONG message).

Regarding Claim 35, Hall teaches an apparatus for sharing user information in a wireless communication network, comprising: means for sending at least one alert from an originator requesting information about at least one target user (Figure 4, Col. 3 lines 29 - 43); means for receiving information by the originator in response to the alert (Figure 4, Col. 3 lines 29 - 43), and means for updating information in the originator about the target user, based on the information received (Cols. 2 lines 1 - 9, 3 lines 29 - 43, in order for the originator (A) to be able to monitor the status of a member or members of a group said originator (A) will update the status information of said member or members upon receiving the PONG

message).

Regarding Claim 40, Hall teaches an apparatus for sharing user information in a wireless communication network, comprising: a memory unit (Figure 3, Col. 3 lines 9 - 11); a receiver; a transmitter (Figure 3, Col. 3 lines 11 - 15, in order to communicate bi-directionally the wireless communication device (31) must have a transmitter and receiver); and a processor coupled to the memory unit, the receiver, and the transmitter (Cols. 5 lines 65 - 67, 6 lines 1 - 2), the processor being capable of: sending at least one alert from an originator requesting information about at least one target user (Figure 4, Col. 3 lines 29 - 43); receiving information by the originator in response to the alert (Figure 4, Col. 3 lines 29 - 43), and updating information in the originator about the target user, based on the information received (Cols. 2 lines 1 - 9, 3 lines 29 - 43, in order for the originator (A) to be able to monitor the status of a member or members of a group said originator (A) will update the status information of said member or members upon receiving the PONG message).

Regarding Claims 2, 8, 14, 20, Hall teaches all of the claimed limitations recited in Claims 1, 7, 13, 19. Hall further teaches wherein said sending includes sending a group alert to a group of targets (Col. 3 lines 29 - 43), said receiving includes receiving information from the group of targets (Col. 3 lines 29 - 43), and said updating includes updating information about the group of targets (Cols. 2 lines 1 - 9, 3 lines 29 - 43, in order for the originator (A) to be able to monitor the status of a member or members of a group said originator (A) will update the status information of said member or members upon receiving the PONG message).

Regarding Claims 3, 9, 15, 21, Hall teaches all of the claimed limitations recited in Claims 2, 8, 14, 20. Hall further teaches updating information in at least one target based on information received from the originator (Col. 3 lines 29 - 43).

Regarding Claims 4, 10, 16, 22, Hall teaches all of the claimed limitations recited in Claims 2, 8, 14, 20. Hall further teaches updating information in at least one target based on information received from at least another target in the group (Cols. 2 lines 1 - 9, any group member, which comprises a target, can monitor the status of other group members, which comprises targets, thus any group member has the capability to update the status information of the other group members).

Regarding Claims 5, 11, 17, 23, Hall teaches all of the claimed limitations recited in Claims 1, 7, 13, 19. Hall further teaches wherein said information includes presence information (Figure 17, Cols. 4 lines 8 - 21, 6 lines 54 - 60, on/off is presence information).

Regarding Claims 6, 12, 18, 24, Hall teaches all of the claimed limitations recited in Claims 1, 7, 13, 19. Hall further teaches wherein said information includes location information (Figure 17, Col. 6 lines 54 - 60, L=lunch or M=meeting is location information).

Regarding Claims 26, 31, 36, 41, Hall teaches all of the claimed limitations recited in Claims 25, 30, 35, 40. Hall

International application No. PCT/US04/40920

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

further teaches wherein said requesting includes requesting information about a group of target users (Col. 3 lines 29 - 43), and said receiving includes receiving information as to whether the group is active or passive (Figure 17, Cols. 2 lines 1 - 9, 6 lines 54 - 60, idle is passive, busy is active).

Regarding Claims 27, 32, 37, 42, Hall teaches all of the claimed limitations recited in Claims 25, 30, 35, 40. Hall further teaches wherein said requesting includes requesting information about a group of target users (Col. 3 lines 29 - 43), and said receiving includes receiving information as to which target user in the group is registered (Figure 17, Cols. 4 lines 8 - 21, 6 lines 54 - 60, if the device is switched on said device is registered).

Regarding Claims 28, 33, 38, 43, Hall teaches all of the claimed limitations recited in Claims 25, 30, 35, 40. Hall further teaches wherein said requesting includes requesting information about a group of target users (Col. 3 lines 29 - 43),

and said receiving includes receiving information as to which target user is participating in a current communication session (Figure 17, Cols. 2 lines 1 - 9, 6 lines 54 - 60, idle is passive, busy comprises participating in a current communication
session). Regarding Claims 29, 34, 39, 44, Hall teaches all of the claimed limitations recited in Claims 25, 30, 35, 40. Hall further teaches wherein said requesting includes requesting information about a group of target users (Col. 3 lines 29 - 43), and said receiving includes receiving location information for the target users (Figure 17, Col. 6 lines 54 - 60, L=lunch or M=meeting is location information).
4. Claims 1 - 44 meet the criteria set out in PCT Article 33(2)-(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.